

## INTERNATIONAL SEARCH REPORT

National Application No  
/IT2004/000284

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K19/00 A61K39/36 C07K14/415 A61P37/08 C12N15/62  
C12N5/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, WPI Data, PAJ, EMBASE, CHEM ABS Data, SEQUENCE SEARCH

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CORBI A L ET AL: "IDENTIFICATION OF IgE BINDING POLYPEPTIDES CROSS-REACTIVE WITH THE PARIETARIA-JUDAICA MAIN ALLERGENIC POLYPEPTIDE" MOLECULAR IMMUNOLOGY, vol. 23, no. 12, 1986, pages 1357-1363, XP002297263 ISSN: 0161-5890 the whole document --- -/--	1, 3



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

23 September 2004

Date of mailing of the international search report

20/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Morawetz, R

## INTERNATIONAL SEARCH REPORT

International Application No.

IT2004/000284

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	COLOMBO P ET AL: "Identification of an immunodominant IgE epitope of the Parietaria judaica major allergen" JOURNAL OF IMMUNOLOGY, THE WILLIAMS AND WILKINS CO. BALTIMORE, US, vol. 160, no. 6, 15 March 1998 (1998-03-15), pages 2780-2785, XP002186915 ISSN: 0022-1767 cited in the application the whole document ---	1-13
Y	WO 02/22674 A (RONCAROLO DANIELA ; VIOTTI ANGELO (IT); FALAGIANI PAOLO (IT); GENGA AN) 21 March 2002 (2002-03-21) cited in the application the whole document ---	1-13
Y	WO 02/20790 A (COSTA MARIA ASSUNTA ; COLOMBO PAOLO (IT); DURO GIOVANNI (IT); IZZO VIN) 14 March 2002 (2002-03-14) cited in the application the whole document ---	1-13
Y	COLOMBO PAOLO: "Hypoallergenic variants of the Parietaria judaica major allergen Par j 1: in vitro and in vivo evaluation." ARBEITEN AUS DEM PAUL-EHRlich-INSTITUT (BUNDESAMT FUR SERA UND IMPFSTOFFE) ZU FRANKFURT A.M. 2003, no. 94, 2003, pages 198-203 ; dis, XP001183703 ISSN: 0936-8671 the whole document ---	1-13
Y	COLOMBO PAOLO ET AL: "The allergens of Parietaria." INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY, vol. 130, no. 3, March 2003 (2003-03), pages 173-179, XP009036928 ISSN: 1018-2438 the whole document ---	1-13
Y	BONURA A ET AL: "HYPOALLERGENIC VARIANTS OF THE PARIETARIA JUDAICA MAJOR ALLERGEN PAR J 1: A MEMBER OF THE NON-SPECIFIC LIPID TRANSFER PROTEIN PLANT FAMILY" INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY, XX, XX, vol. 126, no. 1, September 2001 (2001-09), pages 32-40, XP001037388 ISSN: 1018-2438 cited in the application the whole document ---	1-13

## INTERNATIONAL SEARCH REPORT

ational Application No  
/IT2004/000284

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 219 301 A (SHAN BETEILIGUNGSGESELLSCHAFT) 3 July 2002 (2002-07-03) the whole document	1-13
Y	VRTALA SUSANNE ET AL: "Genetic engineering of a hypoallergenic trimer of the major birch pollen allergen Bet v 1" FASEB JOURNAL, vol. 15, no. 11, September 2001 (2001-09), pages 2045-2047, XP002297264 ISSN: 0892-6638 the whole document	1-13
Y	KUSSEBI F ET AL: "A NOVEL TYPE OF A VACCINE FOR BEE VENOM ALLERGY OBTAINED BY GENE FUSION OF THE TWO MAJOR ALLERGENS" ALLERGY, MUNSKGAARD, COPENHAGEN, DK, vol. SUPPL. 68, no. 56, 2001, page 13 XP001069113 ISSN: 0105-4538 the whole document	1-13

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/IT2004/000284

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0222674	A	21-03-2002	IT	MI20001985 A1		12-03-2002
			AU	1223002 A		26-03-2002
			WO	0222674 A2		21-03-2002
			EP	1319020 A2		18-06-2003
WO 0220790	A	14-03-2002	IT	RM20000494 A1		11-03-2002
			AU	9223001 A		22-03-2002
			CA	2421840 A1		14-03-2002
			EP	1317543 A1		11-06-2003
			WO	0220790 A1		14-03-2002
EP 1219301	A	03-07-2002	EP	1221317 A1		10-07-2002
			EP	1219301 A1		03-07-2002
			US	2002173625 A1		21-11-2002

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IT2004/000284

## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

- ☒ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☒ in written format.  
☒ in computer readable form

c. time of filing/furnishing

- ☒ contained in the international application as filed  
☒ filed together with the international application in computer readable form  
☐ furnished subsequently to this Authority for the purpose of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments: